K & D !	CATALOG	<u>)5/45540A4-RDP78B04747</u> FORM	DATE
1. PROJECT TITLE/CODE NAME		HORT PROJECT DESCRIPTION	26 March 1965
Data Block Reader	D	ata Block Reader for 1	reading and decoding bin bhotographic roll film.
3.			
5. CLASS OF CONTRACTOR		6. TYPE OF CONTRACT	
Manufacturer		Fixed Price	
7. FUNDS	8. RE	QUISITION NO.	9. BUDGET PROJECT NO.
FY 19 \$		NA.	NP-I-1
EW 10.6-		FECTIVE CONTRACT DATE	11. SECURITY CLASS.
FY 1965		Regin - end)	A.A Confidential T Unclassified
FY 1966		е 1965 - мау 1966	W Unclassified
12. RESPONSIBLE DIRECTORATE/OFFICE/F	PROJECT OF	FICER TELEPHONE EXTENSION	
DDI/NPIC/	7		
13. REQUIREMENT/AUTHORITY			
For reading and decoding film prior to processing.	g binary	y or similarly coded i	nformation placed on the
14. TYPE OF WORK TO BE DONE			
14. TYPE OF WORK TO BE DONE			
Engineering Development			
15. CATEGORIES OF EFFORT			
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MAJOR CATEGORY		SUB	CATEGORIES
Information Storage & Retri	ieval _	sue- Information Retrie	
	ieval _		val
Information Storage & Retri	ieval	Information Retrie	val
Information Storage & Retri Equipment		Information Retrie Electro-optical-me	val chanical
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Information Storage & Retri Equipment 16. END ITEM OR SERVICES FROM THIS C	ontract/in	Information Retrie Electro-optical-me MPROVEMENT OVER CURRENT SYSTE er, decoder, and assoc	val chanical M. EQUIPMENT, ETC. iated readout equipment.
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R & D CATALOG FORM (Continued)

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18. Alternatively, manufacturers were solicted for proposals meeting our requirements. The proposal submitted by meets the parameters set forth to develop a data block reader designed for maximum flexibility.

The proposed design incorporates a linear array of photo-diodes which combine the functions of spot location and photo sensitivity. This is a considerable simplification over the flying spot scanner implementation since high voltage accelerating anodes and highly stable sweep voltages are not required.

The device to be used is a single monolithic silicon crystal structure. The spacing of the diodes is extremely accurate, so that the output of each diode in the linear array is presented in the exact pattern of light and dark spots passing over the linear axis. Each diode is individually wired and the signal pre-amplified. By this means the diode array scans and readswout the data block as it passes under the sensory matrix.

The reader will automatically locate the data block, read the data and record it on magnetic tape or punched cards in the IBM format. The reader will be capable of reading four types of data blocks to be specified by the customer. Accommodation of dot size and density variations will be in accordance with MIL-Std 782-A "Tactical Reconnaissance Data Marking". All film sizes from 35mm through $9\frac{1}{2}$ inches in rolls holding up to 1000 feet will be accepted. The film transport will carry the film at a constant velocity of 60 feet per minute. The operator will determine which type of data block is to be read and connect the proper head by a selector switch. After loading the film the read head is aligned by two magnified hairlines and oriented in the same direction as the data block. After the read button is pressed, all the subsequent operations are automatic. The configurations which can be handled by this reader will meet the requirements for readout of two different SI packages as well as the standard DOD data block.

25X1A Appropriate security clearances and channels are already in existence at _____

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